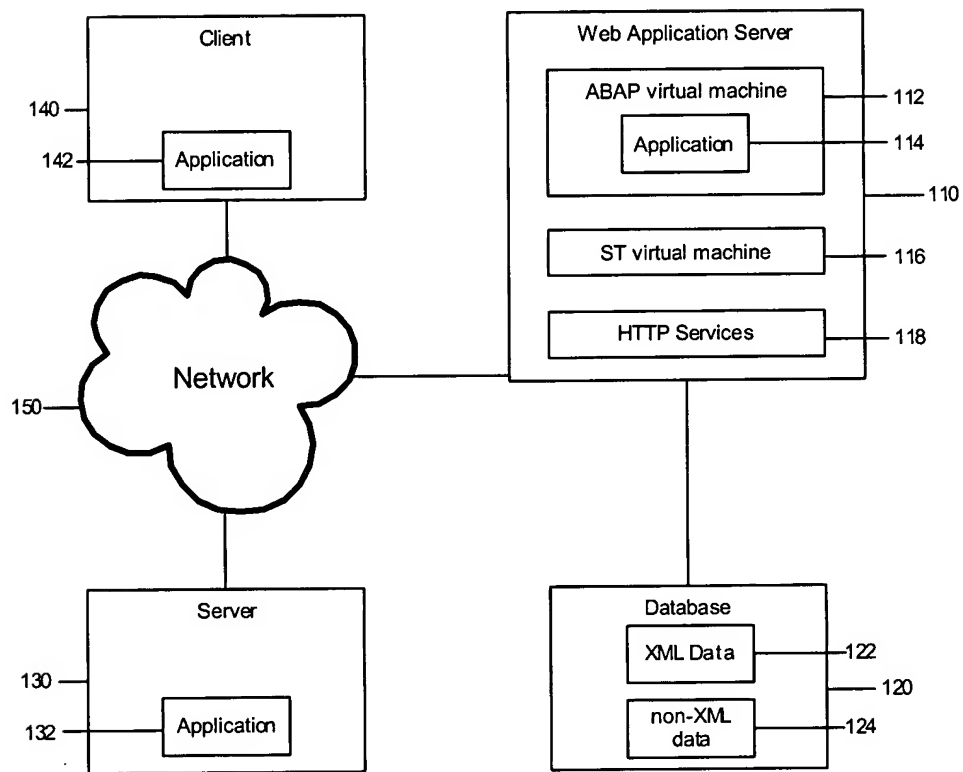
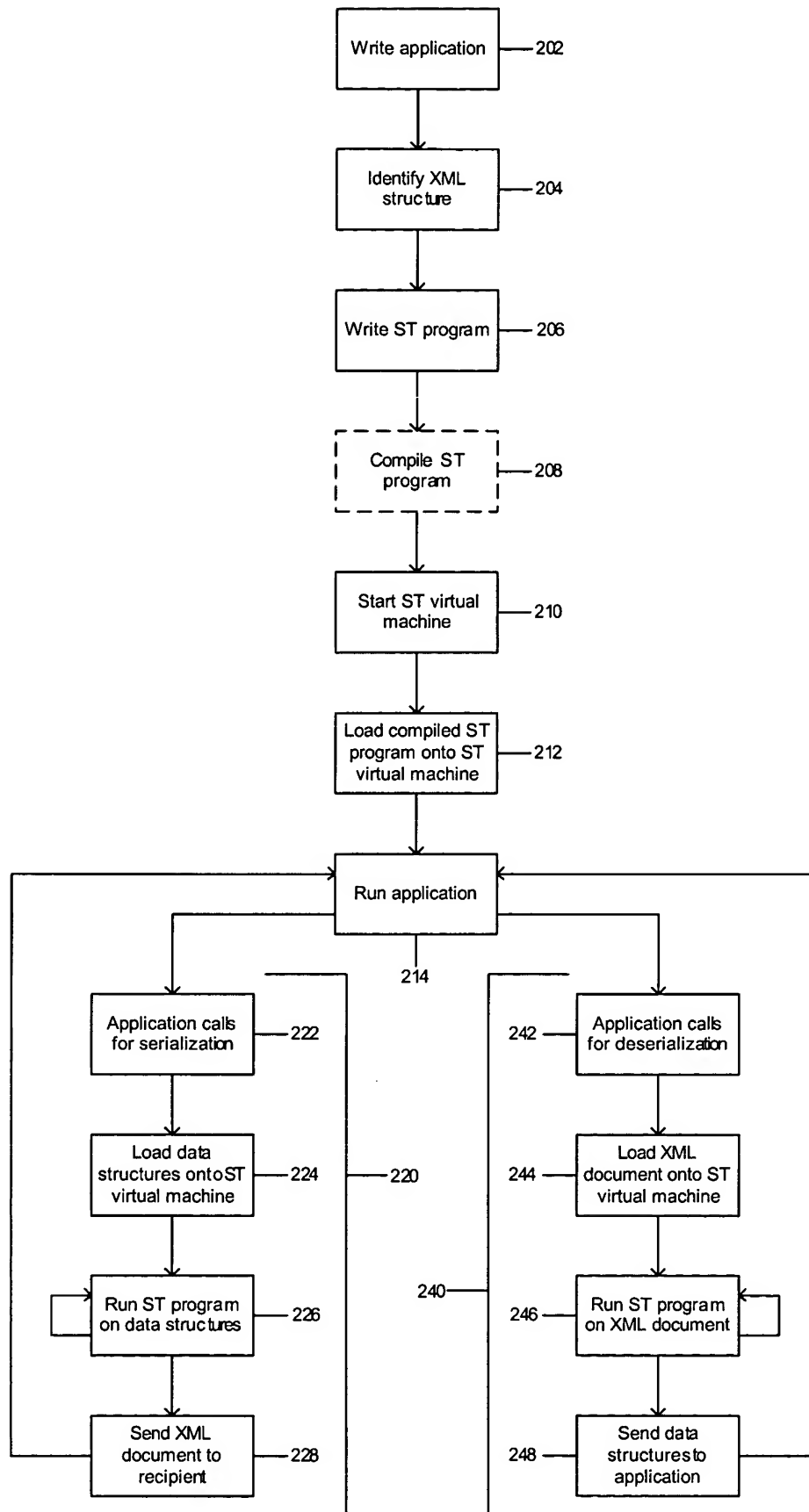


100**FIG. 1**

200

Applicant(s): Karsten K. Bohlmann, et al.

SYMMETRIC TRANSFORMATION PROCESSING SYSTEM

**FIG. 2**

```

302 <tt:transform version="0.1"
302 xmlns:tt="http://www.sap.com/transformation-templates"
302 xmlns:pl="U1"
302 >
398 <!-- *****
398 SAP Simple Transformations sample program, demonstrates
398 most ST instructions
398 Copyright (c) 2003, SAP AG, Germany. All rights reserved.
398 ***** -->
304 <tt:include name="include.xtt"/>
306 <tt:root name="R1"/>
308 <tt:root name="R2"/>
310 <tt:template>
312 <x0>
398 <!-- literal element with literal attributes -->
314 <x1 all="v11" al2="v12">
398 <!-- ref-node value -->
316 <tt:value ref="R1.C1"/>
318 </x1>
398 <!-- element with ref-node value -->
320 <x2 tt:value-ref="R1.C2"/>
398 <!-- element with literal value and lax matching -->
322 <x3 tt:lax="y"><tt:text> text3</tt:text></x3>
398 <!-- element in namespace -->
324 <pl:x4 xmlns:p2="U2" tt:ref="R2.C1">
398 <!-- attribute with ref-node value -->
326 <tt:attribute name="a41" value-ref=".R1.C3"/>
398 <!-- attribute with complex content -->
328 <tt:attribute name="p2:a42" ref=".R1.C4">
330 <tt:text>text4</tt:text>
332 <tt:value/>
334 </tt:attribute>
398 <!-- empty element -->
336 <x41/>
398 <!-- value with follow-text -->
<tt:value/>
<tt:text>text4</tt:text>
</pl:x4>

```

400

```

<!-- value with special mappings -->
<tt:value ref="R2.C2"
map=" s('-', '+', '-'), d('*', '-') "/>

<!-- copy of sub-tree -->
<tt:copy ref="R2.C3"/>

<!-- loop over table -->
<tt:loop ref="R2.C4"><x5 tt:value-ref="LC1"/></tt:loop>

<!-- skip elements -->
<tt:skip name="pl:x6" count="**"/>

<!-- call -->
<tt:call transformation="ST1">
  <tt:with-root name="RR1" ref="R2.C5"/>
</tt:call>

<!-- basic conditional with assertion -->
<tt:cond data="equal('R2.C7',42)">
  <x7 tt:value-ref="R2.C8"/>
</tt:cond>

<!-- switch -->
<x8 tt:ref="R1">
  <tt:switch>
    <tt:cond data="initial(C5)">
      <tt:attribute name="nil">true</tt:attribute>
    </tt:cond>
    <tt:cond data="check(less(C5,100))">99</tt:s-cond>
    <tt:cond data="check(less-equal(C5,200) and
      (not(type-I(C4)) or greater-ref(C5,C4)))">
      <tt:value ref="C5"/>
    </tt:cond>
    <tt:d-cond data="equal(C5,100)">
      <tt:empty/>
    </tt:d-cond>
    </tt:switch>
  </x8>
</x0>
</tt:template>
</tt:transform>

```

FIG. 3